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NOTICE OF ALLOWANCE AND FEE(S) DUE

001609

7590

04/07/2004

ROYLANCE, ABRAMS, BERDO & GOODMAN, L.L.P. 1300 19TH STREET, N.W. SUITE 600 WASHINGTON,, DC 20036

EXAMINER THAI, LUAN C

PAPER NUMBER

ART UNIT 2827

DATE MAILED: 04/07/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/725.166	11/29/2000	Avner Pierre Badehi	41158	8559

TITLE OF INVENTION: METHODS FOR PRODUCING PACKAGED INTEGRATED CIRCUIT DEVICES & PACKAGED INTEGRATED CIRCUIT DEVIC PRODUCED THEREBY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$300	\$965	07/07/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATEN PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHT THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPO PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM TH MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOV REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (O AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WIL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is n claiming SMALL ENTITY status, check the box below and enclo the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) w your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000 INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed wh appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, m have its own certificate of mailing or transmission. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 7590 04/07/2004 001609 ROYLANCE, ABRAMS, BERDO & GOODMAN, L.L.P. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the Un States Postal Service with sufficient postage for first class mail in an envel addressed to the Mail Stop ISSUE FEE address above, or being facsim transmitted to the USPTO, on the date indicated below. 1300 19TH STREET, N.W. SUITE 600 WASHINGTON,, DC 20036 (Depositor's na (Signat (D APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/725,166 11/29/2000 Avner Pierre Badehi 41158 8559 TITLE OF INVENTION: METHODS FOR PRODUCING PACKAGED INTEGRATED CIRCUIT DEVICES & PACKAGED INTEGRATED CIRCUIT DEVIC PRODUCED THEREBY APPLN, TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE nonprovisional YES \$965 07/07/2004 \$665 \$300 **EXAMINER** ART UNIT CLASS-SUBCLASS THAI, LUAN C 2827 257-432000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single $\ensuremath{\square}$ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent "Fee Address" indication (or "Fee Address" Indication form attorneys or agents. If no name is listed, no name PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer will be printed. Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) ☐ individual Please check the appropriate assignee category or categories (will not be printed on the patent); corporation or other private group entity ☐ governm 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): ☐ Issue Fee ☐ A check in the amount of the fee(s) is enclosed. Publication Fee □ Payment by credit card. Form PTO-2038 is attached. ☐ Advance Order - # of Copies _ ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment Deposit Account Number ______ (enclose an extra copy of this form). Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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1300 19TH STRI SUITE 600	EET, N.W.		ART UNIT	PAPER NUMBER
WASHINGTON	" DC 20036		2827	<u> </u>
			DATE MAILED: 04/07/200-	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after t mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a ha months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date th determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retriev (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office—Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

			M
	Application No.	Applicant(s)	
AL 41 CAU L194	09/725,166	BADEHI, AVNER F	PIERRE
Notice of Allowability	Examiner	Art Unit	
	Luan Thai	2827	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	6 (OR REMAINS) CLOSE) or other appropriate con RIGHTS. This application 3 and MPEP 1308.	ED in this application. If not include mmunication will be mailed in due	ded e course. THIS
 This communication is responsive to <u>the amendment enters</u> The allowed claim(s) is/are <u>1-4,6-14,16-19,30-32,35,37-49</u> 12, 27-31, 39, 32-38, and 40, respectively). 		81 (renumbered as 1-8, 13-21, 9) <u>, 10, 22, 11, 23</u> -
3. The drawings filed on 29 November 2000 are accepted by	y the Examiner.		
 Acknowledgment is made of a claim for foreign priority un a)	der 35 U.S.C. § 119(a)-(d) or (f).	
 Certified copies of the priority documents hav 	e been received.		
Certified copies of the priority documents hav	e been received in Applic	cation No	
3. Copies of the certified copies of the priority do	ocuments have been rece	eived in this national stage application	ation from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
 5. Acknowledgment is made of a claim for domestic priority to (a) The translation of the foreign language provisional and the foreign language provisi	application has been reco	eived.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of			
7. A SUBSTITUTE OATH OR DECLARATION must be subrINFORMAL PATENT APPLICATION (PTO-152) which gives rea			NOTICE OF
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing 			Examiner.
(c) including changes required by the attached Examine	r's Amendment / Comme	nt or in the Office action of Paper	r No
Identifying indicia such as the application number (see 37 CFR of each sheet. The drawings should be filed as a separate pape			
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR T 			Note the
Attachment(s)			
 1 □ Notice of References Cited (PTO-892) 3 □ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 □ Information Disclosure Statements (PTO-1449), Paper No 7 □ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4 <u>□</u> Inter 6 <u>□</u> Exar	ce of Informal Patent Application view Summary (PTO-413), Paper miner's Amendment/Comment miner's Statement of Reasons for er	r No
	Uhai	luan 4	12104

DETAILED ACTION

This Office action is responsive to the amendment filed on 3/16/04.

- 1. Claims 1-4, 6-14, 16-19, 30-32, 35,3 7-40, 55, 60-69, 73, 74, 76 and 81, are allowed and renumbered as 1-8, 13-21, 9, 10, 22, 11, 23-26, 12, 27-31, 39, 32-38, and 40, respectively.
- 2. The following is an examiner's statement of reasons for allowance: the prior art taken either singly or in combination fails to anticipate or fairly suggest at least, among the other: a) at least one gap between the crystalline substrate and the at least one transparent chip scale packaging layer, as recited in claims 1, 37, and 38; b) at least one chip scale package which is sealed over the microstructure and defines therewith at least one gap, as recited in claim10; and c) defining a gap at the at least one cavity between the microstructure and the at least one packaging layer, as recited in claims 60 and 65; especially when these limitations are considered within the specific combination claimed.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2827

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luan Thai whose telephone number is 571-272-1935. The examiner can normally be reached on 6:45 AM - 4:15 PM, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Luan Thai April 2, 2004